

THESE WERE DISCUSSED IN
JUNE
THE 22 ~~JULY~~ 67 MEETING

FED

ANGULAR GAIN FUNCTION FOR SAMPLE Bead 1A

FRACTION OF POWER INSIDE 90 DEGREES = .735

FRACTION OF POWER INSIDE 45 DEGREES = .707

SPECULAR TRANSMITTANCE = 0

FRACTION ABSORBED =

Diffuse Reflectance = 6.2%

ANGLE °	I[K]	GAIN[K]
0	1.05	36.306
5	.765	26.451
10	.536	18.533
15	.348	12.033
20	.238	8.229
25	.146	5.048
30	.08	2.766
35	.038	1.314
40	.019	.657
45	.005	.173
50	.004	.138
55	.003	.104
60	.003	.104
65	.002	.069
70	.002	.069
75	.002	.069
80	.002	.069
85	.001	.035
90	0.00	0.00

THEO. PREDICTS GAIN
 $\theta = 10$
 THE HIGHER GAIN IS
 A RESULT OF THE
 VOIDS

ANGULAR GAIN FUNCTION FOR SAMPLE BOARD 1B

FRACTION OF POWER INSIDE 90 DEGREES = .971

1/2 4 : TRANSMISSION

FRACTION OF POWER INSIDE 45 DEGREES = .805

SPECULAR TRANSMITTANCE = 0

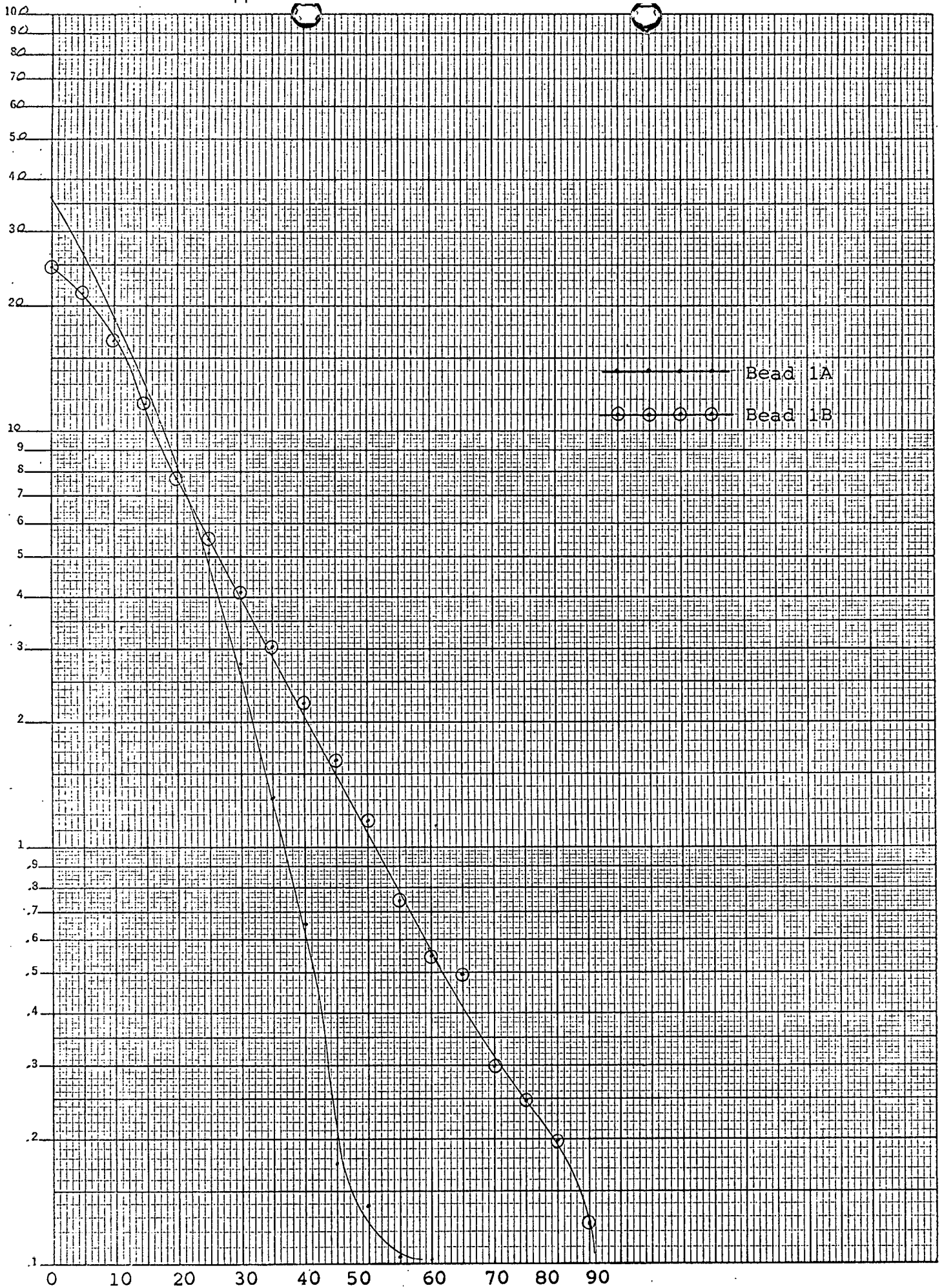
FRACTION ABSORBED =

Diffuse Reflectance = 17.7%

*POL HAVE 36%
LARGER HAVE SENSITIVE TO
AMB LIGHT*

ANGLE K	I[K]	GAIN[K]
0	1	24.803
5	.86	21.331
10	.662	16.42
15	.47	11.658
20	.31	7.689
25	.222	5.506
30	.164	4.068
35	.122	3.026
40	.09	2.232
45	.065	1.612
50	.045	1.116
55	.03	.744
60	.022	.546
65	.02	.496
70	.012	.298
75	.01	.248
80	.008	.198
85	.005	.124
90	0.00	0.00

Gain (K)

46 5810
MADE IN U.S.A.K&E SEMI-LOGARITHMIC
3 CYCLES X 140 DIVISIONS
KEUFFEL & ESSER CO.

Beaded Screen Having Beads
Toward The Viewer

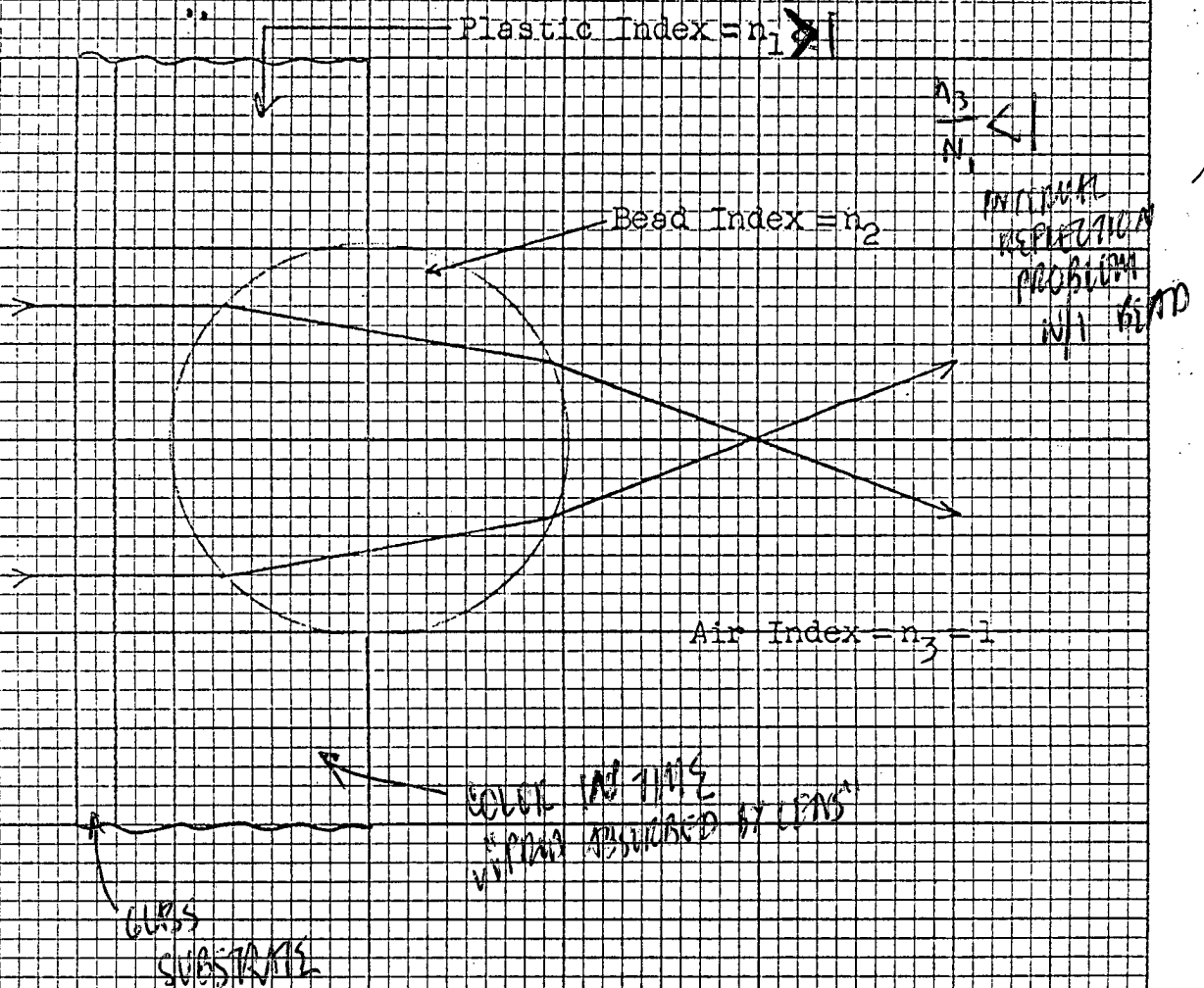
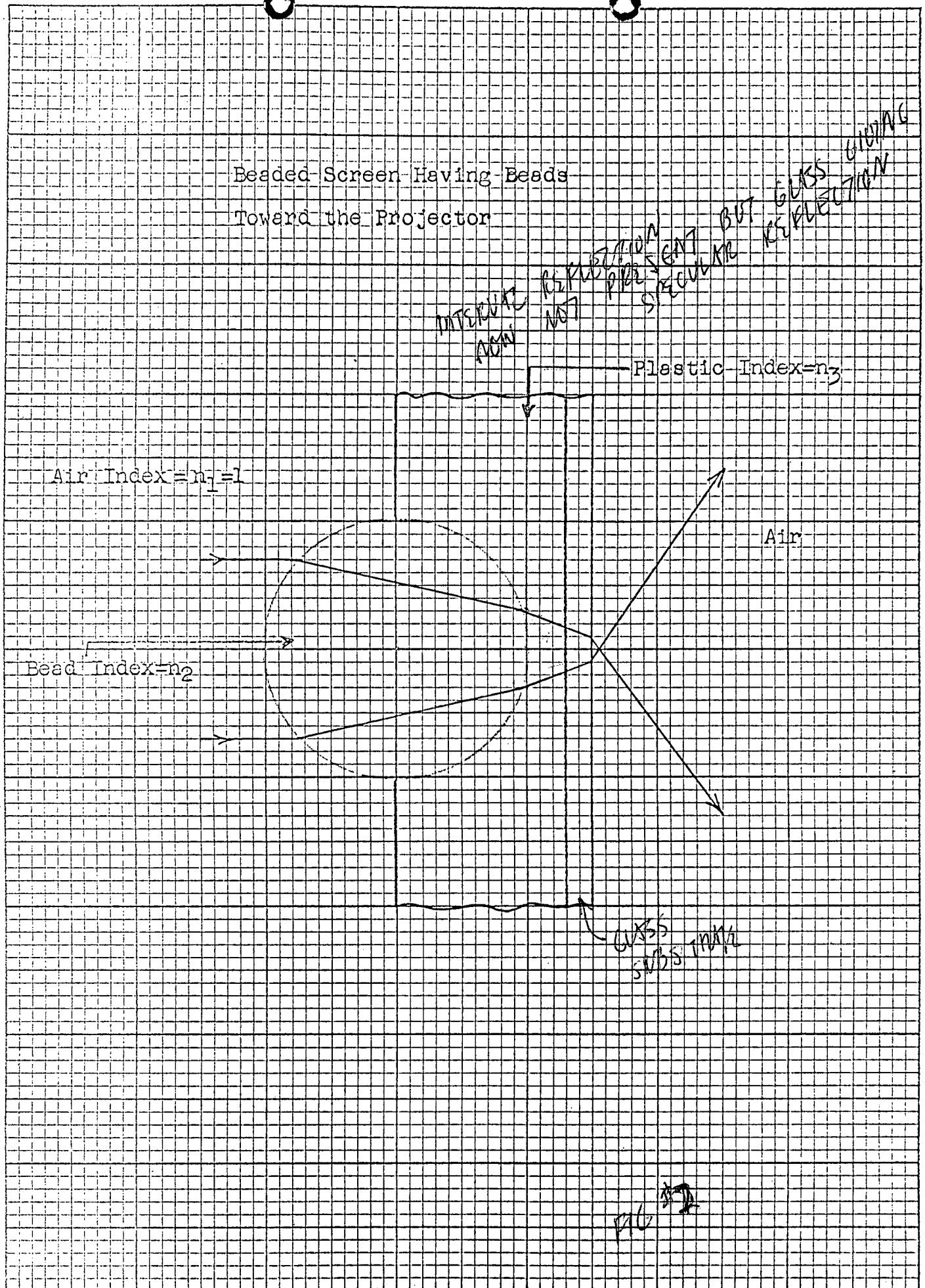
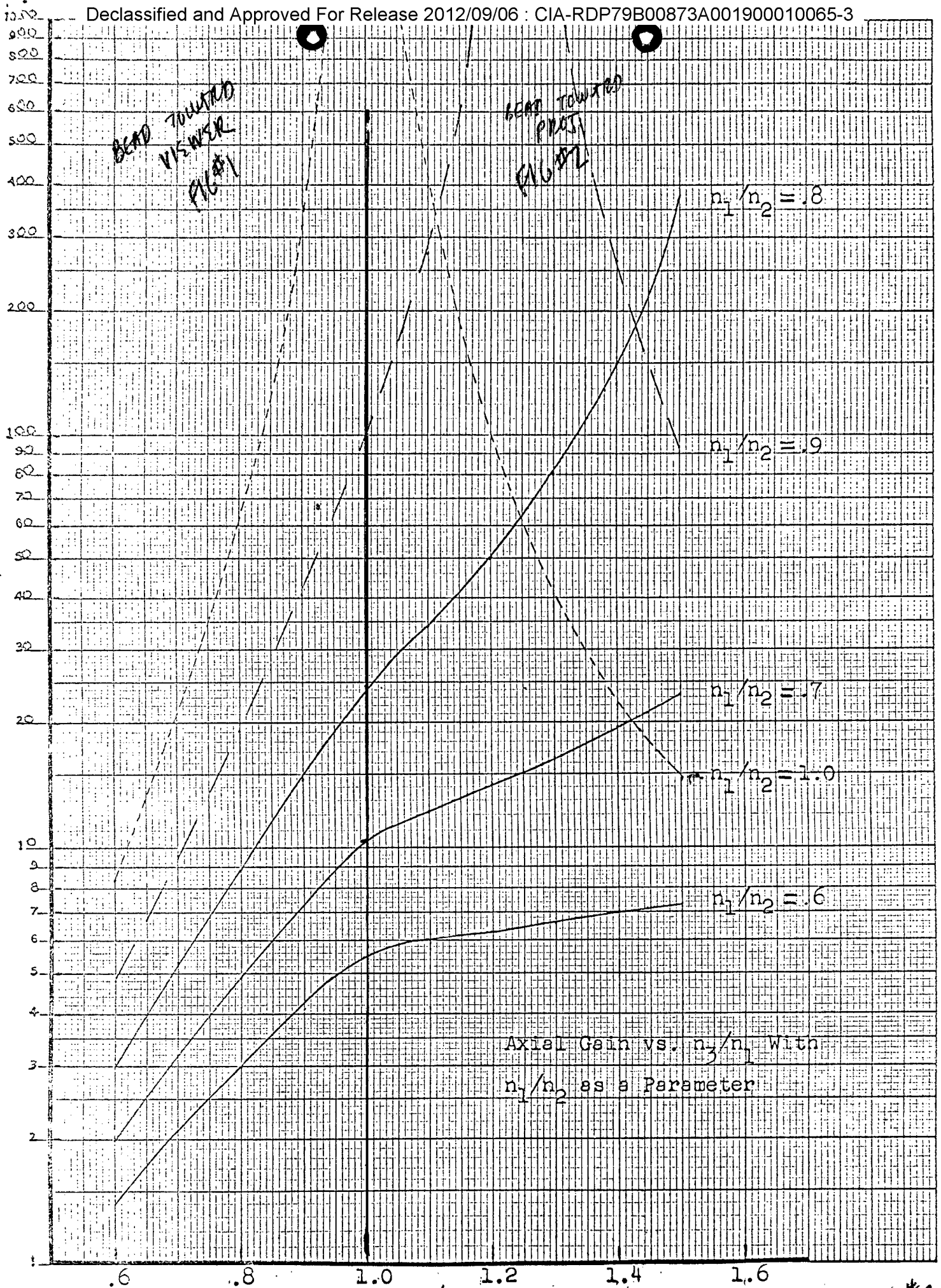


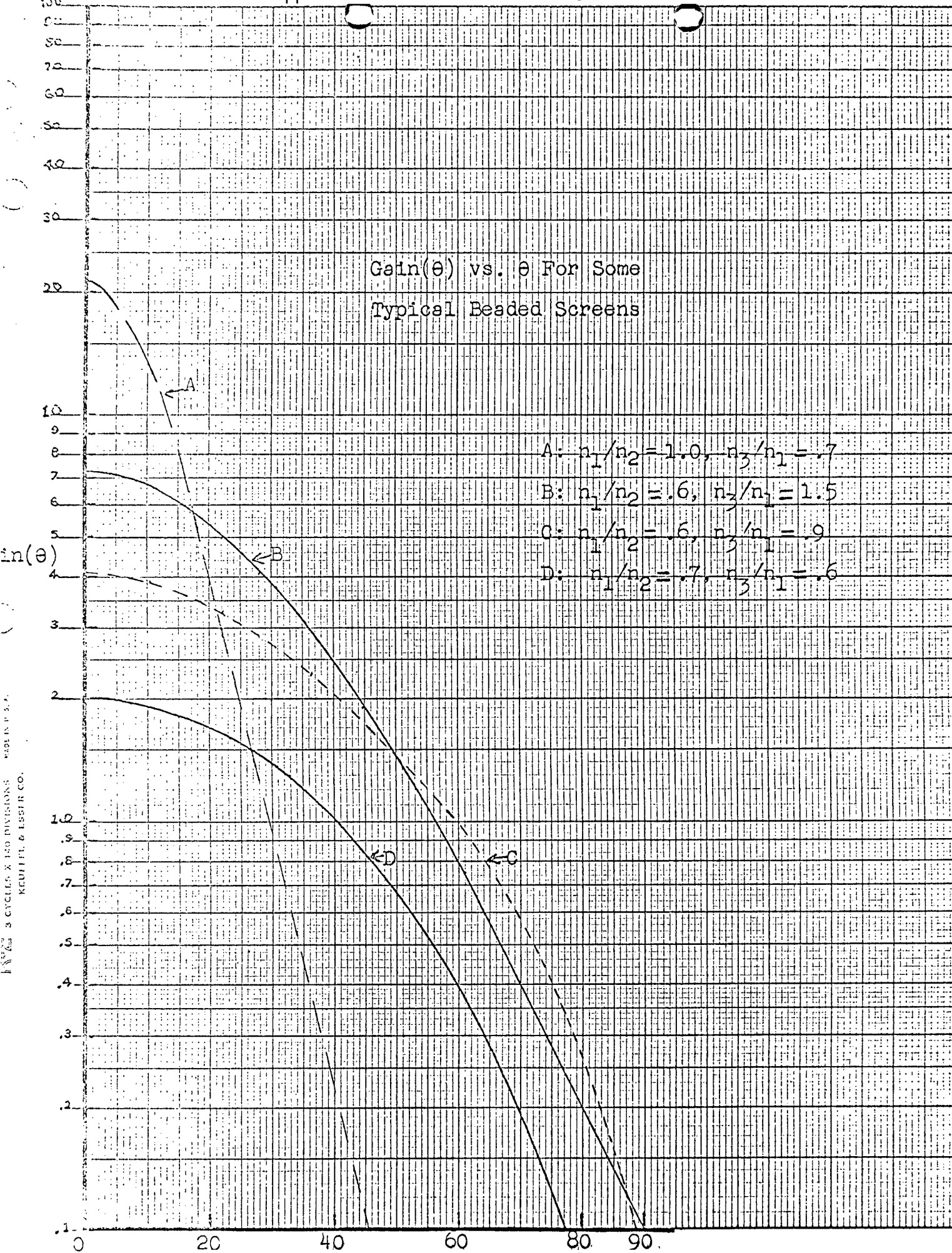
FIG #1



Axial
Gain

46 5810
 3 CYCLES A 1/2 DIVISION
 KEUFEL & ESSER CO.





The Fraction of Incident Power
Scattered Into $\pm 45^\circ$ as a Function
of Axial Gain For Beaded Screens

T_{45}

